Textbook Alignment to the Utah Core – Math 7

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Name of Company and Individual Conducting Alignment:
A "Credential Sheet" has been completed on the above company/evaluator and is (Please check one of the following):
□ On record with the USOE.
□ The "Credential Sheet" is attached to this elignment
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Instructional Materials Evaluation Criteria (name and grade of the core document used to align): Math 7 Core Curriculum
Title: Middle School Math, Course 1 ©2007 ISBN#: SE: 978-0-618-61069-3 TE: 978-0-618-63820-8
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Publisher: McDougal Littell
Overall percentage of coverage in the Student Edition (SE) and Teacher Edition (TE) of the Utah State Core Curriculum: 100 %
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Overall percentage of coverage in <i>ancillary materials</i> of the Utah Core Curriculum: N/A %
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STANDARD I: Students will expand number sense to understand, perform operations, and solve problems with rational numbers.

			centage of coverage not in student or teacher edition, but covered <i>uncillary material</i> for Standard I: N/A %	
Овје	CTIVES & INDICATORS	Coverage in Student Edition (SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in <i>Ancillary</i> <i>Material</i> (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
Obje ways	ctive 1.1: Represent rational numbers in a variety of			
a.	Demonstrate multiple ways to represent whole	SE/TE: 260, 261, 263-265, 266,		
	numbers, decimals, fractions, percents and integers	267, 268-270, 271-272, 273-275,		
	using models and real-life examples.	276, 277, 281-282, 283, 286-287,		
		294, 300, 338, 340, 353, 355, 402-		
		403, 404-405, 425-426, 427-428,		
		429-430, 431-432, 433, 434, 476,		
		568-569, 573, 575-577, 607, 666,		
		680, 713, 734-735, 780, 783		
b.	Simplify numerical expressions with whole number	SE/TE: 16, 17, 18-19, 20, 22, 23-25,		
	exponents using order of operations, and recognize that	33, 48-49, 51, 71, 191, 212, 593,		
	any positive number to the 0 power is 1.	594-595, 723, 776		
c.	Represent numbers greater than one using scientific	SE/TE: 195-196		
	notation.			
d.	Select the most appropriate form of a rational number	SE/TE: 600-601		
	for a given context.			

includ	ctive 1.2: Compare and order rational numbers, ling positive and negative fractions, positive and ive mixed numbers and positive and negative hals.		
a.	Identify, read and locate rational numbers on a number	SE/TE: 130-131, 132-135, 136, 141,	
	line.	159, 161, 254-255, 256-258, 262,	
		263, 265, 270, 273-275, 277, 281,	
		283, 738, 778	
b.	Compare pairs of rational numbers in different forms.	SE/TE: 130-131, 132-135, 136, 141,	
		159, 161, 164-165, 254-255, 256-	
		257, 262, 263-264, 273-275, 277,	
		281, 283, 284-285, 286-287, 288-	
		289, 314, 339, 396-397, 398-399,	
		416, 427, 439, 554, 574, 575-576,	
		577, 583, 617-618, 621, 622-623,	
		624-625, 678-679, 734-735, 778,	
		780, 786	
c.	Order rational numbers with and without a number line.	SE/TE: 130-131, 132-135, 136, 141,	
		153, 159, 161, 164-165, 179, 228,	
		240, 255, 256-258, 262, 263-265,	
		270, 273-275, 277, 281, 283, 284-	
		285, 286-287, 290, 338, 428, 431-	
		432, 440, 442, 446, 447, 450-451,	
		484, 574, 575-577, 590, 591, 617-	
		618, 621, 622-623, 624-625, 679,	
		778, 780, 783, 786	

Objec	ctive 1.3: Explain relationships and equivalences		
amon	g rational numbers.		
a.	Find equivalent forms for common fractions, decimals,	SE/TE: 260-261, 263-265, 266-267,	
	percents and ratios, including repeating or terminating	268-270, 271-272, 273-275, 276,	
	decimals.	277, 281-282, 283, 286-287, 294,	
		338, 340, 353, 402-403, 404-406,	
		409-410, 422, 423, 425-426, 427-	
		428, 429-433, 442, 443, 445-446,	
		447, 450-451, 476, 568-569, 666,	
		680, 700, 734-735, 780, 782-783	
b.	Predict the effect of operating with fractions, decimals,	SE/TE: 658-659	
	percents and integers as an increase or a decrease of the		
	original value.		
c.	Recognize and use the identity properties of addition	SE/TE: 35, 149-150, 152-153, 157,	
	and multiplication, the multiplicative property of zero,	161, 164-165, 171, 176, 177-179,	
	the commutative and associative properties of addition	191, 192, 215, 219, 222-223, 224-	
	and multiplication and the distributive property of	225, 235, 433, 778, 779	
	multiplication over addition.		
d.	Recognize and use the inverse operations of adding and	SE/TE: 65, 582, 740	
	subtracting a fixed number, multiplying and dividing		
	by a fixed number, and computing squares of whole		
	numbers and taking square roots of perfect squares.		

	ctive 1.4: Model meanings of ratios and operations		
with	rational numbers.		
a.	Demonstrate that the fraction a over b represents a divided by b.	SE/TE: 600	
b.	Recognize percents as ratios based on 100 and decimals as ratios based on powers of 10.	SE/TE: 424, 425, 428	
c.	Extend the multiplication of whole numbers to multiplication of fractions using area models, measurement models, and the number line.	SE/TE: 341	
d.	Compare the division of whole numbers to the division of fractions using area or set models, the number line and missing factors.	SE/TE: 4, 256, 361	

Objec	ctive 1.5: Solve problems involving rational numbers.		
a.	Compute fluently using all four operations with	SE/TE: 148-149, 151-154, 155, 156,	
	integers and positive fractions and decimals.	160, 161, 162-163, 164-165, 168,	
	The state of the s	169-170, 171-173, 179, 180, 181-	
		182, 183-185, 186-187, 188-191,	
		192, 193-194, 195-197, 198-199,	
		200-202, 206, 212, 213, 214-215,	
		216-217, 219, 220-221, 222-223,	
		224-225, 240, 258, 270, 290, 295-	
		296, 297-300, 301, 302-303, 304-	
		307, 308, 309-310, 311-314, 315,	
		316-317, 318-320, 321, 327, 328,	
		330-332, 333, 334-335, 336-337,	
		341-342, 343-345, 346-347, 348-	
		350, 351-353, 354-355, 356-359,	
		360, 361, 362-363, 364-366, 367-	
		368, 369-372, 377, 384, 386, 387-	
		389, 391, 394-395, 396-397, 400,	
		406, 422, 464, 469, 476, 484, 517,	
		522, 529, 549, 568-569, 578, 579-	
		580, 581-583, 584-585, 586-587,	
		588-590, 591, 592-593, 594-596,	
		597-598, 599-601, 602, 613, 616,	
		618-619, 621, 622-623, 624-625,	
		639, 644, 666, 713, 734-735, 752,	
		778, 779, 781, 782, 786	

b.	Solve problems using factors, multiples, prime	SE/TE: 230-231, 232-235, 236-237,	
	factorization, relatively prime numbers and common	238-240, 248, 249, 250-251, 252-	
	divisibility rules.	253, 275, 277, 278-280, 283, 286-	
		287, 290, 300, 327, 351-352, 411,	
		549, 635, 687, 780	
c.	Solve application problems involving rational numbers.	SE/TE: 230-231, 232-235, 236-237,	
		238-239, 248, 250-251, 252-253,	
		275, 277, 278-280, 283, 287, 290,	
		300, 411, 687, 780	
d.	Determine if an answer is reasonable using estimation.	SE/TE: 150, 152, 170, 172, 178,	
		182-184, 191, 199, 212, 215, 327,	
		345, 355, 356, 368, 527, 531, 637,	
		638, 641, 642, 647, 779	

Percentage of coverage in the <i>student and teacher edition</i> for Standard II: 100 % Percentage of coverage not in student or teacher edition, but cover the <i>ancillary material</i> for Standard II: N/A %		overed in		
Овје	CTIVES & INDICATORS	Coverage in Student Edition (SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in <i>Ancillary</i> <i>Material</i> (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
Obje	ctive 2.1: Solve problems involving ratios, rates,			
prop	ortions and percentages.			
a.	Solve ratio and rate problems using informal methods	SE/TE: 401, 402-403, 404-406,		
	involving multiplication and division.	407-408, 409-411, 422, 423, 443-		
		444, 447, 450-451, 568-569, 649-		
		650, 783		
b.	Solve percent problems using ratio and proportion,	SE/TE: 172-173, 435-436, 437-440,		
	including problems involving discounts, interest, taxes,	441, 442, 446, 447, 448-449, 450-		
	tips, and percent increase or decrease.	451, 459, 493, 568-569, 613, 649-		
		650, 658-659, 734-735, 783		
c.	Solve problems involving proportions, rates and	SE/TE: 72-73, 74-75, 80, 81, 92,		
	measures.	107-108, 111, 114-115, 123, 129,		
		164-165, 170, 176, 177, 201-202,		
		207-208, 209-212, 213, 215, 217-		
		218, 219, 222-223, 258, 340, 363,		
		365-366, 377, 378-379, 381-383,		
		389-390, 391, 394-395, 400, 406,		
		407-408, 409-411, 415-416, 417-		
		418, 419-422, 423, 440, 443-445,		
		447, 448-449, 450-451, 544, 568-		
		569, 649-650, 658-659, 734-735,		
		777, 779, 782, 783		

	etive 2.2: Apply the properties of proportionality to ent units of measurement.		
a.	Convert from one unit of measurement to an equivalent unit of measurement in the same system using a given conversion factor.	SE/TE: 207-208, 209-212, 213, 218, 219, 222-223, 258, 340, 377, 378-379, 381-383, 390, 391, 394-395, 406, 416, 544, 779, 782	
b.	Understand that in a proportional relationship, all dimensions change by the same scale factor.	SE/TE: 72-73, 74-75, 81, 417-418, 419-422, 423, 440, 445, 448-449, 450-451, 568-569, 734-735	
c.	Create and interpret scale drawings and approximate distance on maps using proportions.	SE/TE: 72-73, 74-75, 80, 81, 92, 107-108, 111, 114-115, 129, 400, 417-418, 419-422, 423, 440, 445, 447, 448-449, 450-451, 568-569, 658-659, 734-735, 777, 783	

Show that performing the same operation on both sides

of an equation will produce an equivalent equation. Solve single-variable linear equations and inequalities

of The form ax + b = c, ax + b < c, or ax + b > c.

d.

e.

Percentage of coverage in the <i>student and teacher edition</i> for Standard III: 100 % Percentage of coverage not in student or teacher edition, but the <i>ancillary material</i> for Standard III: N/A %		overed in		
Овје	CTIVES & INDICATORS	Coverage in Student Edition (SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in <i>Ancillary</i> <i>Material</i> (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
•	ctive 3.1: Evaluate, simplify and solve algebraic			
expre	essions and equations.			
a.	Write a variable expression to identify pattern	SE/TE: 655, 656-657, 662, 664-665,		
	relationships and use those expressions to make	668, 674-675, 676-677, 718		
	predictions.			
b.	Translate verbal expressions into algebraic expressions.	SE/TE: 28, 629-630, 631-632, 644,		
		645, 653, 669, 708, 734-735		
c.	Simplify and evaluate algebraic expressions.	SE/TE: 28, 29-30, 31-33, 38, 45, 49,		
		51, 58, 65, 80, 147, 149, 151-152,		
		171-172, 178-179, 188, 195-196,		
		200-201, 265, 304-305, 311-313,		
		318-319, 349, 351-352, 356-357,		

650, 776, 782

SE/TE: 36-38

677, 734-735, 787

364-366, 388, 391, 394-395, 493, 512, 577, 588-589, 593, 594-595, 599-600, 613, 626-627, 628, 638,

SE/TE: 35, 298-300, 454, 498, 517,

549, 581-582, 588-589, 594-595, 632, 635, 637, 638-639, 640-641, 642-644, 645, 646-647, 648-650, 652, 666, 668, 670-671, 673, 676-

Obje	ctive 3.2: Represent relationships using graphs, tables		
and o	other models.		
a.	Identify integer coordinates when given the graph of a point on a rectangular coordinate system.	SE/TE: 90-91, 605-606	
b.	Graph ordered pairs of integers on a rectangular coordinate system.	SE/TE: 88, 90-91, 97, 109, 111, 114-115, 185, 453, 572, 601, 603, 605-607, 644, 659, 660-661, 662-666, 668, 672, 673, 676-677, 687, 734-735, 777, 787	
c.	Model real-world problems using graphs, tables, equations, manipulatives and pictures.	SE/TE: 33, 39-41, 43-45, 46, 50, 51, 52-53, 54-55, 65, 68-69, 70-71, 104, 107, 123, 129, 150, 152-153, 170, 173, 248, 259, 270, 313-314, 320, 358, 361, 433, 436-437, 489, 515, 516-517, 519, 520-522, 527-528, 529, 537, 540, 546, 547-549, 551, 552-555, 558, 559, 562, 563, 564-565, 566-567, 568-569, 589-590, 591, 613, 659, 664-665, 734-735, 761, 762, 765, 771-775, 785	

	ntage of coverage in the <i>student and teacher edition</i> andard IV: <u>100 %</u>			overed in
Овје	CTIVES & INDICATORS	Coverage in Student Edition (SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
Obje	ctive 4.1: Draw, label and describe attributes of			
geom	etric figures to determine geometric relationships.			
a.	Draw, label and describe relationships among line	SE/TE: 62-65, 455-456, 457-459,		
	segments, rays, lines, parallel lines and perpendicular	462-463, 469, 476, 478, 500-501,		
	lines, including midpoint of a line segment.	505, 508-509, 559, 784		
b.	Draw, label and describe relationships among vertical,	SE/TE: 466, 467-468, 476, 478,		
	adjacent, complementary and supplementary angles.	500-501, 505, 506-507, 508-509,		
İ		568-569, 734-735, 784		
c.	Draw, label and describe attributes of angles, triangles	SE/TE: 460, 462-464, 470, 471,		
İ	and quadrilaterals.	473-476, 478, 479, 480-481, 482-		
İ	-	484, 485-486, 487-489, 493, 498,		
]		499, 503, 505, 508-509, 510-511,		
		537, 568-569, 723, 734-735, 784		

Ohied	Objective 4.2: Determine measurements in metric and						
U	customary units using appropriate tools and formulas.						
a.	Estimate metric and customary measures using everyday objects and comparisons.	SE/TE: 59, 62-65, 68-69, 70-71, 80, 81, 106, 111, 114-115, 164-165, 203, 206, 343-345, 375-377, 396-397, 515, 517, 557, 566-567, 568-569, 734-735					
b.	Measure length, area, volume and angles to appropriate levels of precision.	SE/TE: 59-60, 62-65, 71, 72, 75, 80, 81, 106, 111, 125-126, 127-129, 135, 136, 158, 461, 463, 454, 459, 553					
c.	Calculate the measurement of everyday objects using formulas for perimeters and areas of triangles and quadrilaterals, and circumferences and areas of circles	SE/TE: 31-33, 58, 66-67, 68-71, 75, 80, 81, 87, 145-146, 151-152, 162-163, 164-165, 173, 177-178, 183-185, 191, 192, 201-202, 209-210, 220-221, 245-246, 304-305, 311-314, 336-337, 355, 356-359, 360, 384, 388, 391, 392-393, 394-395, 400, 404-405, 416, 418, 419-422, 423, 445, 450-451, 454, 498, 512, 513, 514-515, 516-517, 518-519, 520-522, 525-527, 528-529, 530, 531-533, 534-537, 540, 544, 545-546, 547-549, 554-555, 558, 559-562, 563, 564-565, 566-567, 568-569, 605-606, 639, 658-659, 664-665, 668, 671, 674-675, 676-677, 695, 734-735, 777, 782, 785					
d.	Calculate the measurement of everyday objects using	SE/TE: 550-551, 552-555, 558, 562,					
	formulas for surface area and volume of right triangular	563, 566-567, 568-569, 687, 734-					
	and rectangular prisms and cylinders.	735, 785					

	DARD V: Students will understand concepts from proba			
Percentage of coverage in the <i>student and teacher edition</i> for Standard V: 100 %		Percentage of coverage not in student or teacher edition, but covered in the <i>ancillary material</i> for Standard V: N/A %		
OBJECTIVES & INDICATORS		Coverage in Student Edition (SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries
Objective 5.1: Use basic concepts of probability to determine the likelihood of an event and compare the results of various experiments.				
a.	Write the results of a probability experiment as a fraction, ratio or decimal, between zero and one, or as a percent between zero and one hundred, inclusive.	SE/TE: 681, 702, 703		
b.	Compare experimental results with theoretical probability.	SE/TE: 688, 702-703		
c.	Compare individual, small group and large group results of a probability experiment.	SE/TE: 681		
Objective 5.2: Display and compare data to make predictions and formulate conclusions.				
a.	Display data using tables, scatter plots and circle graphs.	SE/TE: 76-77, 78-80, 81, 87, 108, 111, 114-115, 154, 298-300, 529, 533, 534-537, 540, 561, 563, 566-567, 568-569, 680, 707-708, 728, 729, 732-733, 734-735, 777, 785, 788		
b.	Compare two similar sets of data on the same graph.	SE/TE: 717, 724		
c.	Compare two different kinds of graphs representing the same set of data.	SE/TE: 79-80, 719-720, 721		
d.	Propose and justify inferences and predictions based on data.	SE/TE: 7-8, 78, 95-97, 104, 105, 110, 111, 114-115, 396-397, 432-433, 439, 568-569, 734-735, 777		